

End to End Encryption

a. Panel Chair (Name and Organization)

David Kennedy CISSP ICSA Inc.

b. Panelists (Names and Organizations)

Michael Miora InfoSec Labs Inc
Russ Cooper, R.C. Consulting Inc.
Pirkka Palomaki, Datafellows Inc.
Robert Moskowitz, ICSA Inc.

c. Session abstract from Panel Chair

Federal Standard 1037C defines end-to-end encryption as: "*The encryption of information at its origin and decryption at its intended destination without any intermediate decryption.*" As a practical matter, it's often encryption performed between the network and transport layers. It provides some advantages over link encryption by eliminating data exposure behind the encrypting devices. However, it also carries with it some disadvantages, it is less transparent to users, key management is more complex, traffic information cannot be encrypted and it is more resource-intensive as the encryption burden is decentralized to the endpoints.

d. Brief summary of panelist's topics from Session Chair

Michael Miora will discuss some practical lessons learned from deployment of end-to-end encryption in diverse organizations.

Russ Cooper will discuss implementation issues associated with the Point-to-Point Tunneling Protocol and the Layer 2 Tunneling Protocol (PPTP and L2TP respectively) with emphasis on application with in Microsoft Network Products including Windows 2000

Pirkka Palomaki will discuss the application of Secure Shell and IPSec to provide end-to-end encryption solutions.

Robert Moskowitz will discuss interoperability issues associated with IPSec and the future direction of the IETF and IAB regarding improved network infrastructure security.

Background of audience you are trying to attract.

Security practitioners interested in the advantages offered by client-side encryption through to the destination on the network. The panel will provide snapshots of lessons learned deploying these solutions, some of the more common solutions available and with the increasing availability of IPSec products, the status and direction of that technology.